ADPRO®
PRO E-Series

PIR PIDS — Passive Infrared Perimeter Intrusion Detection Systems

Software Manual

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ADPRO by xtralis

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Document Conventions

The following typographic conventions are used in this document.

Convention	Description
Bold	Used to denote: emphasis Used for names of menus, menu options, toolbar buttons
Italics	Used to denote: references to other parts of this document or other documents. Used for the result of an action

The following abbreviations are used in this document.

Abbreviation	Description
AA	Aperture Angle
CZ	Creep Zone
DR	Detection Rate
ESD	Electrostatic Sensitive Device
FAR	False Alarm Rate
GND	Ground
QSG	Quick Setup Guide
PID	Perimeter Intrusion Detector

Abbreviation	Description
PIDS	Perimeter Intrusion Detection System
PIR	Passive Infrared

The following icons conventions are used in this document.

Convention	Description
	CAUTION! This icon is used to indicate that there is a danger to equipment. The danger could be loss of data, physical damage, or permanent corruption of configuration details.
	WARNING! This icon is used to indicate that there is a danger of electric shock. This may lead to death or permanent injury.
	WARNING! This icon is used to indicate that there is a danger of inhaling dangerous substances. This may lead to death or permanent injury.
	DANGER! This icon is used to indicate that there is a danger of falling down! There is acute danger, when working with unsecured ladders. Unsecured ladders can slip and cause a fall that can lead to serious injuries. Additional information: refer to local „Safety at Work Act“.
	NOTE! This icon is used to highlight useful advice and recommendations as well as information for an efficient and trouble-free operation.

Tradename statement

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1 Software Installation

The ADPRO PRO Windows® Software is available as an accessory to the interface module “IFM-485-ST (formerly IF-485B)”. It is used for commissioning of challenging installations, optimizing the settings and monitoring the detector/s in use. It can be used for all types of detectors.

The Software shows all current operation parameters and analog signals of each detector in real time. This is useful in various situations, such as realignment of the detector, adapting certain parameters or blanking out objects in the detection area causing unwanted alarms.

NOTE!

The software’s name has been changed from “IF-485B” to “IFM-485-ST”; it has the same functionality, but with the following enhancements:

- Destruction of the unit due to over-voltage is avoidable.
- Accidental reverse of polarity will not cause damage to the unit.

1.1 System Requirements

Before installing the ADPRO PRO Windows® Software, make sure that the following requirements are available in the computer:

- Microsoft® Windows® PC
- Communication Ports: USB or RS232

1.2 Install Software

The ADPRO PRO Windows® Software installation wizard allows you to easily install the Software by providing you with direct and easy-to-follow steps whether installation is made on an XP or Windows 7/8 platform.

This section discusses how to install the Software on Windows 7/8 and XP platforms, in addition to configuring the communication port.

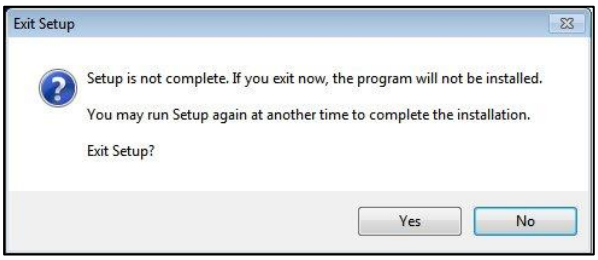
1.2.1 Install on Windows 7/8 Platform

To install the Software on a Windows 7/8 platform, do the following:

1. Unzip the file “Setup_PROXX.zip”,
2. Rename the file “Setup_PROXX.txt” to “Setup PROXX.exe”,
3. Double click the file “Setup PROXX.exe”, a Security Warning window appears,
4. Click (Run), a User Account Control window appears,
5. Click (Yes), the ADPRO Setup Wizard installation wizard starts and the following window appears:

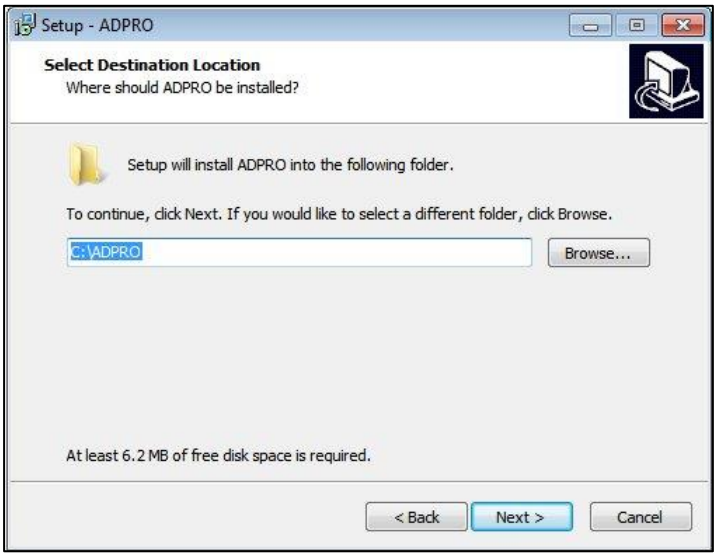
Setup - ADPRO
Welcome to the ADPRO Setup Wizard
This will install ADPRO Version 0601 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

If you want to cancel the installation process, click (Cancel), the following message appears:


Exit Setup
Setup is not complete. If you exit now, the program will not be installed.
You may run Setup again at another time to complete the installation.
Exit Setup?
Yes
No

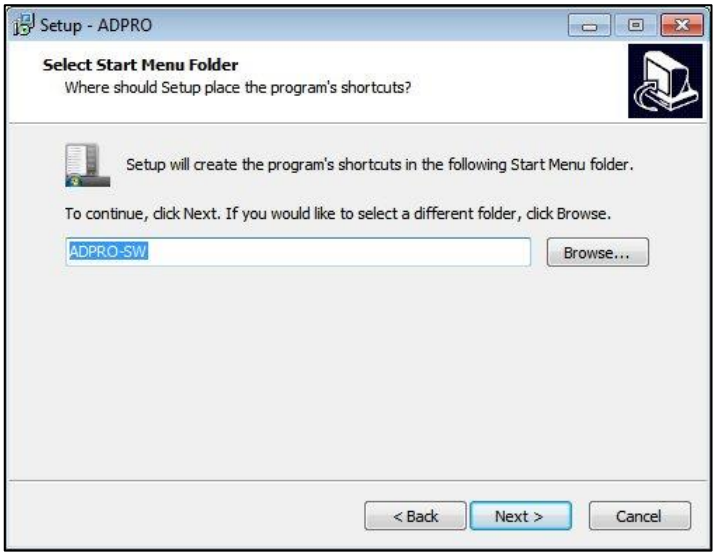
Click (Yes) to cancel the installation process, or (No) to resume it. You can reinstall the Software later.

6. Click (Next), the following window appears:


Setup - ADPRO
Select Destination Location
Where should ADPRO be installed?
Setup will install ADPRO into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\ADPRO
Browse...
At least 6.2 MB of free disk space is required.
< Back
Next >
Cancel

You can save the ADPRO PRO Windows® Software in the selected folder or specify another one by clicking (Browse) then selecting it.

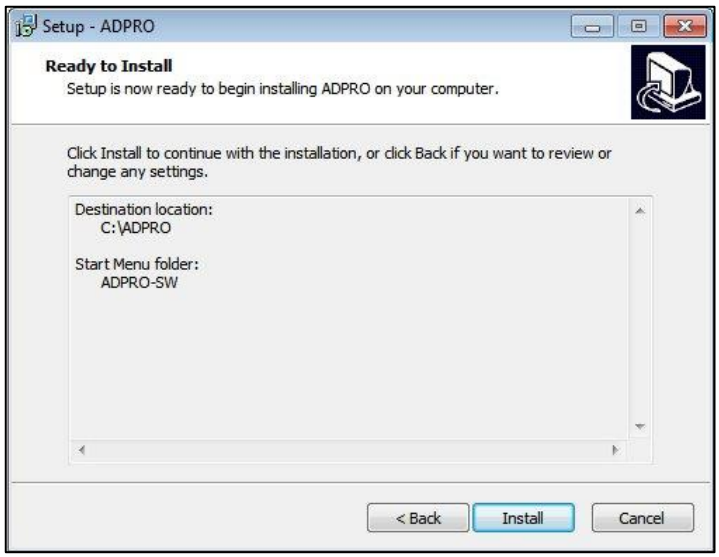
7. Click (Next), the following window appears:


Setup - ADPRO
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
ADPRO-SW
Browse...
< Back
Next >
Cancel

The window shows where the Software's shortcuts will be created, if you want to specify another folder, click (Browse) and select it.

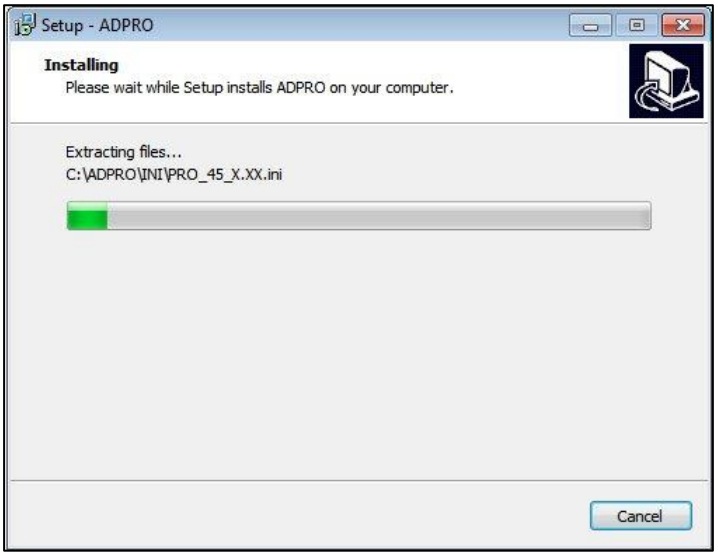
You can return to the previous window to make the changes you want by clicking (Back). This button is available in all windows.

8. Click (Next), the following window appears:


Setup - ADPRO
Ready to Install
Setup is now ready to begin installing ADPRO on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\ADPRO
Start Menu folder:
ADPRO-SW
< Back
Install
Cancel

The window shows the destination location and start menu folder you specified.

9. Click (Install), the following window appears:



10. Wait untill the installation is complete, the following window appears:

Setup - ADPRO
Completing the ADPRO Setup Wizard
Setup has finished installing ADPRO on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Finish

11. Click (Finish).

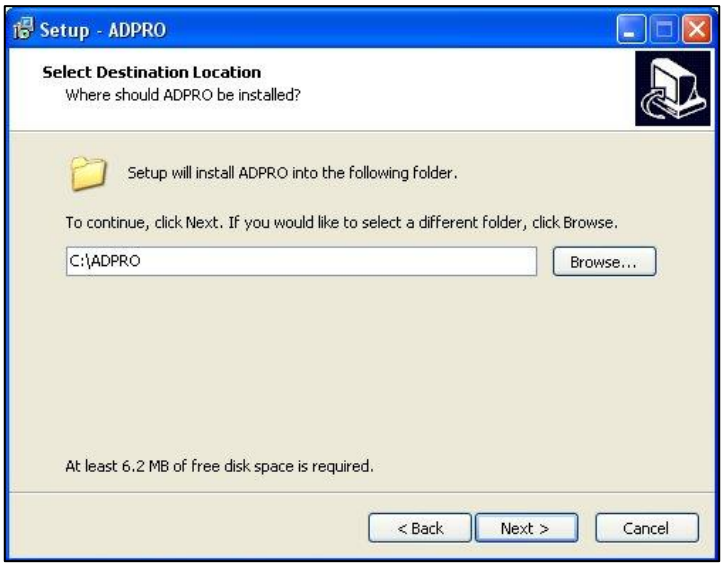
1.2.2 Install on XP Platform

To install the Software on an XP platform, follow these steps:

1. Unzip the file “Setup_PROXX.zip”,
2. Rename the file “Setup_PROXX.txt” to “Setup PROXX.exe”,
3. Double click the file “Setup PROXX.exe”, the ADPRO Setup Wizard starts and the following window appears:

Setup - ADPRO
Welcome to the ADPRO Setup Wizard
This will install ADPRO Version 0601 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

4. Click (Next), the following window appears:


Setup - ADPRO
Select Destination Location
Where should ADPRO be installed?
Setup will install ADPRO into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\ADPRO
Browse...
At least 6.2 MB of free disk space is required.
< Back
Next >
Cancel

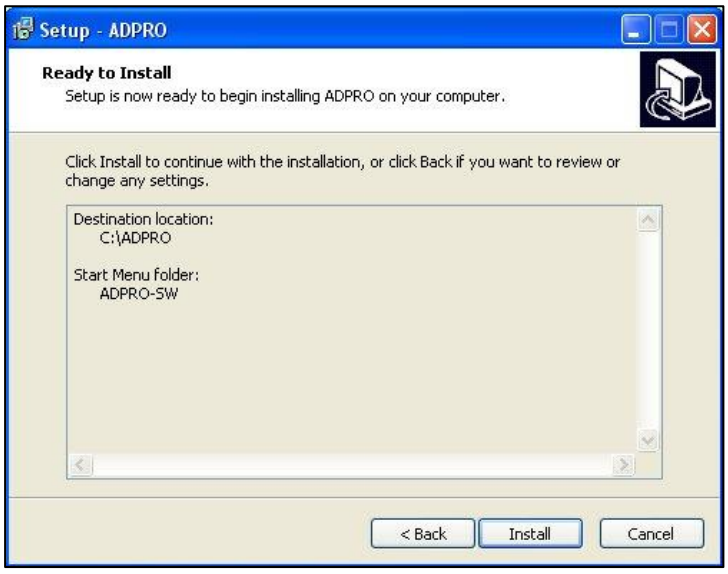
You can save the ADPRO PRO Windows® Software in the selected folder or specify another one by clicking (Browse) then selecting it.

5. Click (Next), the following window appears:

Setup - ADPRO
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
ADPRO-SW
Browse...
< Back
Next >
Cancel

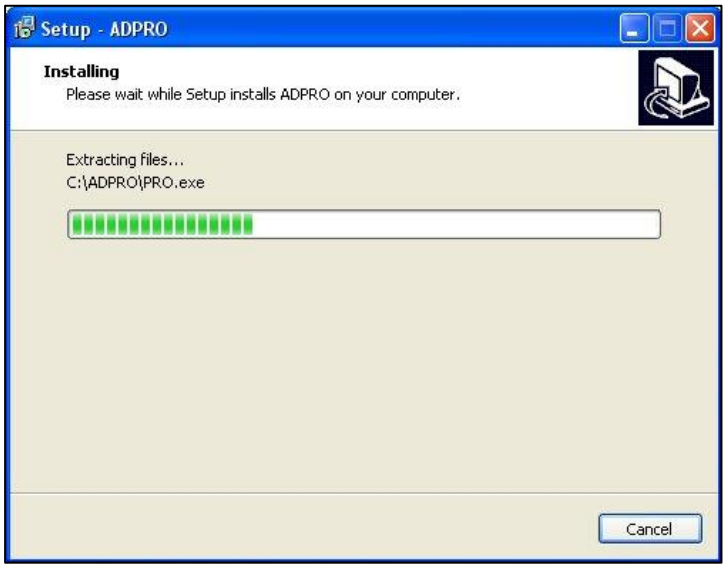
The window shows where the Software's shortcuts will be created, if you want to specify another folder, click (Browse) and select it.

6. Click (Next), the following window appears:


Setup - ADPRO
Ready to Install
Setup is now ready to begin installing ADPRO on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\ADPRO
Start Menu folder:
ADPRO-SW
< Back
Install
Cancel

The window shows the destination location and start menu folder you specified.

7. Click (Install), the following window appears:

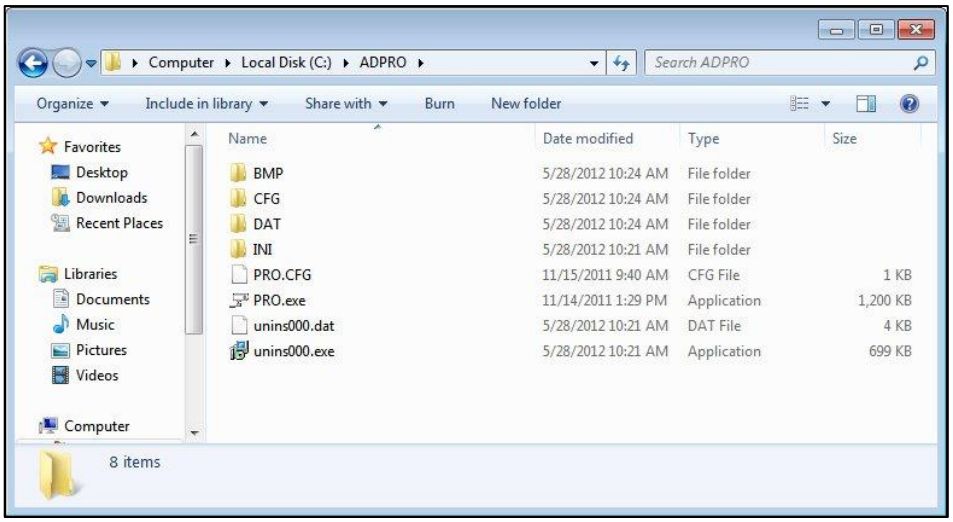


8. Wait till the installation is complete, the following window appears:

Setup - ADPRO
Completing the ADPRO Setup Wizard
Setup has finished installing ADPRO on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Finish

9. Click (Finish).

The ADPRO PRO Windows® Software is now installed in your computer in the specified directory and the following structure is created:



Each sub-folder is responsible for a specification action as follows:

BMP : Contains all images taken using the Software.

CFG : Contains all detector configuration files.

DAT : Contains all statistics and debugger files.

INI : Contains all detectors definition files. Each detector model requires its specific INI file.

PRO.CFG : Contains specific data relevant to the display structure such as logo on images, etc. This file must not be deleted.

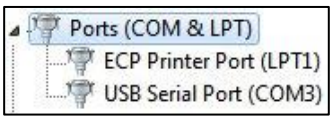
PRO.exe : Installation program for setup and signal display.

1.2.3 Configure Communication Port

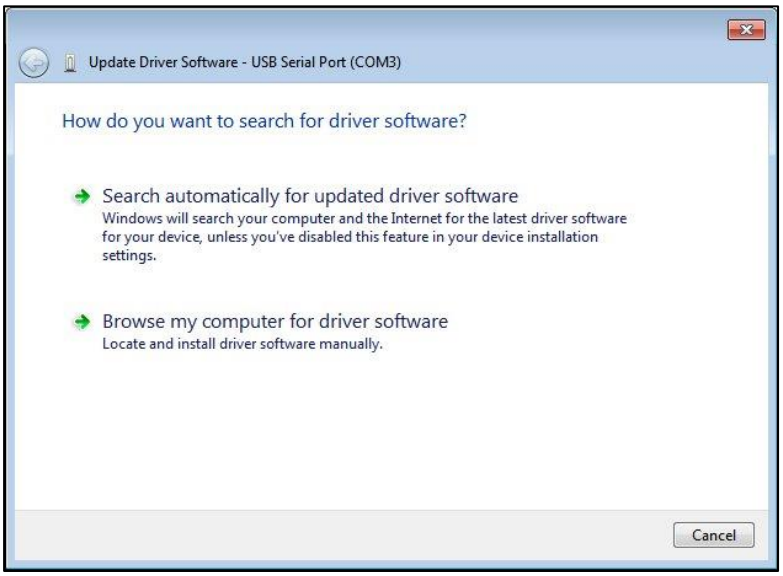
It is important to configure the communication port that will be dedicated to the Software before you start using it.

If you are using a **Windows 7/8 platform**, follow these steps to configure the port:

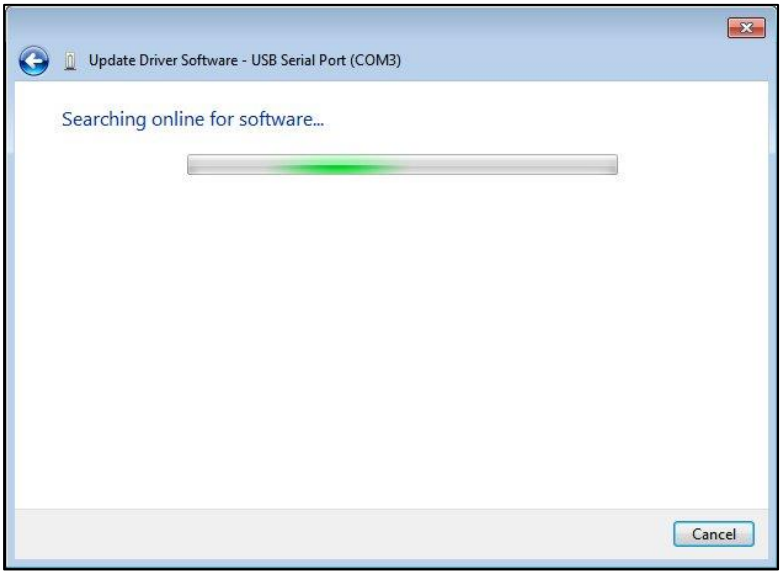
1. Connect the “IFM-485-ST” to the available port,
2. Right click “My Computer”,
3. Click “Manage”,
4. Click “Device Manager”,
5. Click “Ports (COM and LPT)”, a list of available ports appears as shown next:



6. Right click “USB Serial Port (COM3)” to update its driver software,
7. Click (Update Driver Software…), the following window appears:


Update Driver Software - USB Serial Port (COM3)
How do you want to search for driver software?
Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
Browse my computer for driver software
Locate and install driver software manually.
Cancel

8. Select “Search automatically for updated driver software”, the following window appears:



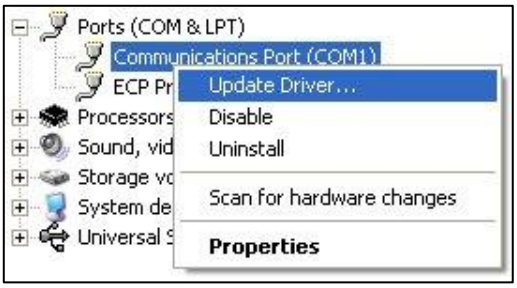
9. Wait for the search to complete, the following window appears:

Update Driver Software - USB Serial Port (COM3)
The best driver software for your device is already installed
Windows has determined the driver software for your device is up to date.
USB Serial Port
Close

10. Click (Close).

If you are using an **XP platform**, follow these steps to configure the communication port:

1. Right click “My Computer”,
2. Click “Manage”,
3. Click “Device Manager”,
4. Click “Ports (COM and LPT)”,
5. Right click “Communications Port (COM1)”, the following menu appears:



6. Click (Update Driver…), the following window apppears:

Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Communications Port (COM1)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

7. Select “Install the software automatically (Recommended)”,
8. Click (Next), the following window appears:

9. Wait while the wizard searches for the update, the following window appears:

Hardware Update Wizard
Cannot Continue the Hardware Update Wizard
The wizard could not find a better match for your hardware than the software you currently have installed.
Choose what you want to do.
To keep the current software, click Finish.
To search again in another location, click Back.
< Back
Finish
Cancel

10. Click (Finish).

NOTE!

- You can directly connect to the IFM-485-ST via the RS232 com.
- Every time you change the communication port you are using, you need to reconfigure its driver software.
- Port number varies depending on the system you are using.

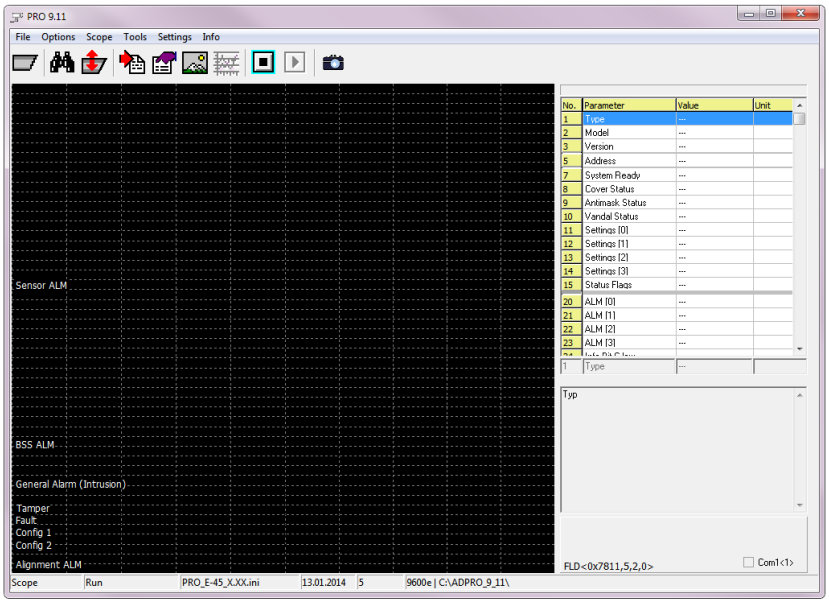
For more information on how to associate the communication port with the Software, refer to section (1.3.2 Select Communication Port).

1.3 Use Software

As mentioned earlier, the Software helps you to optimize the settings and monitor the detector(s) in use. After you have successfully mounted the detector and configured the settings you need, you can start using the Software.

Once installed, a shortcut is created for the ADPRO PRO Windows® Software and can be accessed through the applications menu, it appears as follows:

Activate the Software, the following window appears:



The ADPRO PRO Windows® Software provides various tools and features that allow you to control and monitor the detectors and maximize their benefit. They are categorized into menus for easier access.

In addition, you can access any tool or feature through the buttons that appear in the toolbar as follows:

Image	Action
	Open Detector INI
	Search Detector
	Up/download settings
	Debugger
	Statistics
	Scope
	View picture
	Run
	Stop
	Take picture

Moreover, the Software provides shortcuts through the keyboard for faster access to the required tool, as follows.

Shortcut	Action

<F1>	About the Software
<F2>	Open detector definition file window.
<F3>	Search for a detector.
<F4>	Up/Download
<Ctrl> + B	Beep
<F5>	Run scope
<Ctrl> + <F5>	Stop scope
<F6>	Change scroll direction, “right to left” or “left to right”
<F7>	Hide/ show grid
<F8>	Increase signal speed
<Ctrl> + <F8>	Decrease signal speed
<F9>	Clear scope
<F10>	Delete all triggers
<Ctrl> + <K>	Open scope window
<Ctrl> + <P>	Take picture
<Ctrl> + <V>	View picture
<Ctrl> + <A>	Picture auto
<Ctrl> + <O>	Picture memo
<Ctrl> + <M>	Open statistics window
<Ctrl> + <T>	Test
<Ctrl> + <D>	Open debugger window

The following sections discuss all the actions you can perform, the available tools and how to use them.

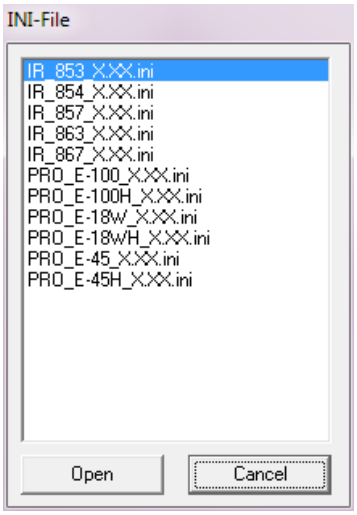
1.3.1 Select Detector

Before you start using the ADPRO PRO Windows® Software, you need to select the detector to be used. The Software normally finds the detector’s definition file automatically. This step is only required if there is no automatic loading of the detector.

There are two methods for selecting the detector in use in order to load its definition file and connect it to the “IFM-485-ST” data bus.

First method:

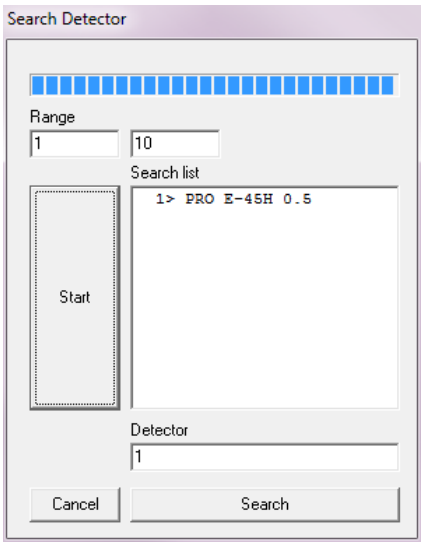
1. Click “File”,
2. Click (Open Detector INI),the following appears:



3. Select the detector,
4. Click (Open).

Second method:

1. Click “Option”,
2. Click (Search Detector),the following window appears:

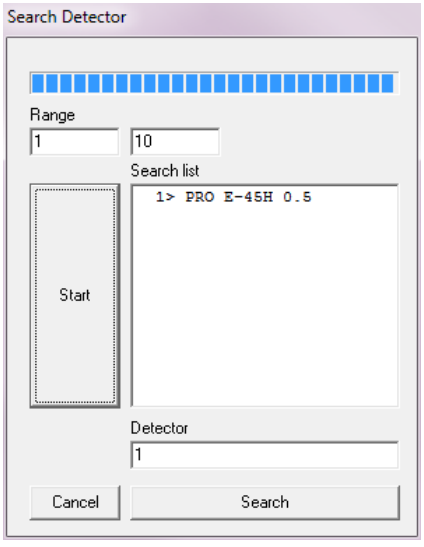


NOTE!

Detectors are given IDs (addresses) in the range of 1 to 254. Factory-set addresses are in the 1 to 10 range. It is recommended to narrow down the range when searching for a detector so as not to take time and retrieve the connected detectors more quickly.

Each detector must have a unique address, if more than one detector is given the same address and connected to the same bus, none of them will appear on the Software. To resolve this problem, disconnect all detectors and configure each one separately. This will ensure that no detector uses the same ID of another one.

3. Click (Start), or press keys <ALT> + <S>, a list of found detectors appears as shown below:



The number on the left of the “>” sign is the detector’s ID. The type of the detector and the firmware version number are on the right of the “>” sign.

You can stop the search process by pressing <ALT> + <S> or clicking (Stop).

To close the search window, click (ESC).

If no detectors are found, the following message appears:

The message shows the possible reasons for not retrieving any detector. Click (OK), check the error, and repeat the search.

4. Select the detector you want, or enter its identification number in “Choice” field,
5. Click (OK).

If you select the wrong detector, the following message appears:

Click (OK) then select the correct detector.

1.3.2 Select Communication Port

To select the communication port to which the “IFM-485-ST” data bus will be connected, follow these steps:

1. Click “Option”,
2. Click “Com Port”, a menu listing the available ports appears,
3. Select the port you want; it will be marked with a (☑) sign.

NOTE!

Communication ports’ numbers vary according to the system you are using and available ports.

1.3.3 File management

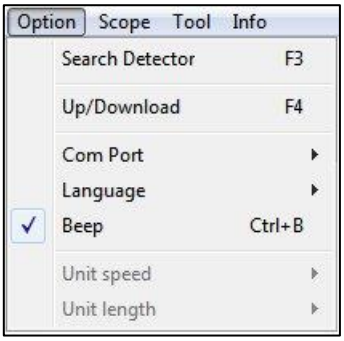
This option enables you to select the detector in use in order to load its definition file and connect it to the “IFM-485-ST” data bus.

For more information, refer to section (10.3.1 Select Detector).

1.3.4 Option

Through this menu you can search for a certain detector, upload/ download detector settings, select port, etc.

Option appears as shown next:



The following sections discuss, in detail, the actions you can perform.

1.3.4.1 Search Detector

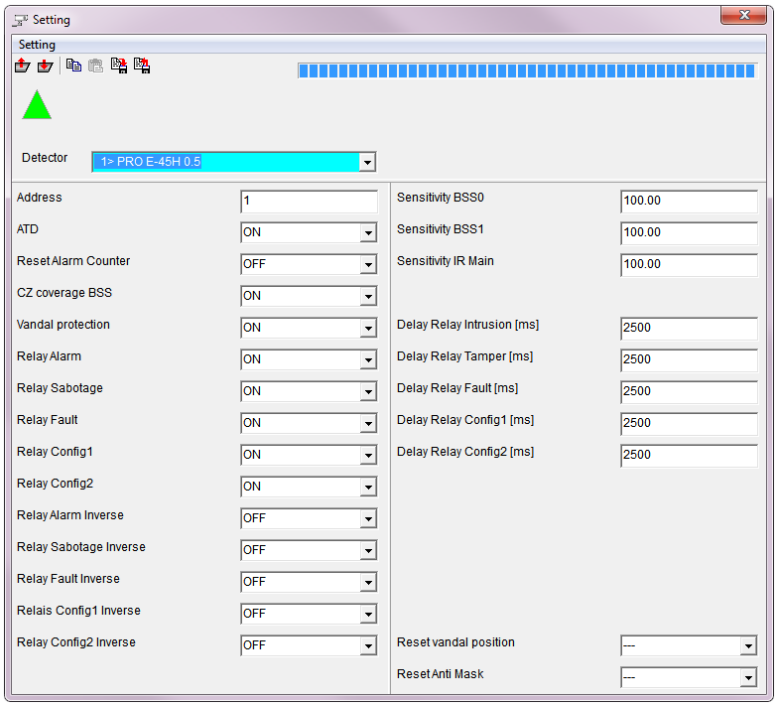
To search for a detector, refer to section (10.3.1 Select Detector).

1.3.4.2 Up/Download

The Software simplifies the process of detector configuration and allows you to save time spent in setting other detectors values. You can configure a detector and use the same settings for other detectors of the same type connected to the Software.

You can manage setting options, upload a detector's settings, download them from a definition file, and save them to a new definition file, etc.

The **Up/Download** window appears as follows:



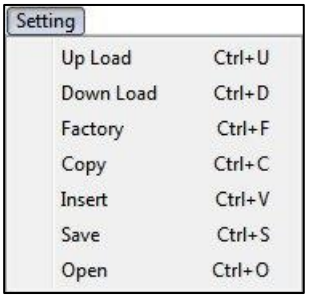
Settings window is detector-model-dependent and is primarily designed to review and change detector's parameters. These include the overall sensitivity, mounting height, etc.

The window shows the detailed setting options of the selected detector. It also shows the actions you can perform where each one is represented with a certain button as follows:

Image	Action
	Upload settings to detector
	Download detector's settings
	Copy

	Insert
	Save to configuration file
	Load from configuration file

Also, the above actions can be accessed by clicking “Setting”, the following menu appears:



The following sections discuss all the actions you can perform, the available tools and how to use them.

NOTE!

Setting options depend on detector model.

Displayed positions and displayed terms of option may vary depending on detector model.

To select a detector to load its settings, you can:

- Select the detector from the drop-down menu then click ( ).
- Press <F3> and search for it by following the same steps mentioned in section (10.3.1 Select Detector), then click ( ).

1.3.4.2.1 Setting Options

The Setting window displays the setting options for the selected detector where each field represents a certain value as follows:

Choice		Lists all detectors of the same model, so that settings can be easily copied.
Address		Displays selected detector’s identification number.
Configuration		Displays current operation mode: Hardware or Software. ***NOTE!*** Operation modes can only set by DIP-switches 1 and 2 on connector board of detector.
Channel L/M/S [1)]	ON	Long, medium and short range channels may be enabled individually by selecting “ON” from drop-down menu.
	OFF	Long, medium and short range channels may be disabled individually by selecting “OFF” from drop-down menu.

Output function [Relay | Transistor]		If relay function is set to “ON”, the following two options are available in the drop-down menu: 1. “IR + VAN | IR + VAN”: Using relay and transistor open collector to signal intrusion alarms and tamper alarms. 2. “IR + VAN”: Using only relay to signal intrusion alarms and using only transistor open collector to signal tamper alarms. This allows identifying alarms.
Output [OC1 | OC2]		This feature is only available with intrinsically safe detectors. These detectors have two open collector outputs, which have to be connected via the recommended ex-barriers and through which two relay outputs can be used. The following options can be accessed via a drop-down menu: 1. “IR | VAN”: This serves to issue intrusion alarms on relay 1 and vandalism alarms on relay 2 at the ex-barrier, which serves to clearly distinguish the alarms. This is the factory setting. 2. “IR + VAN | IR + VAN”: This setting is used to issue both alarms at the same time for intrusion and vandalism on relays 1 and 2 at the ex-barrier. Therefore it is not possible to distinguish the alarms.
Relay function	OFF	Disables output function of relay.
	ON	Enables output function of relay.
Relay output logic	Normal	Relay opens when in alarm.
	Inverted	Relay closes when in alarm.
Transistor output logic	Normal	OC opens when in alarm.
	Inverted	OC closes when in alarm.
Channel right/left [3)]	ON/ OFF	Enables/ Disables right/ left channel.
SW sensitivity right/left [%] [1)]		Modifies sensitivity of right/left channel within bandwidth 20 % - 139.39 %. Reduction of overall sensitivity changes alarm threshold but leaves coverage of right/left channel unchanged.
SW range		Detection range can be individually set in seven steps. Pre-set values vary depending on model. Reduction of nominal range affects only coverage of long-range channel (applies to long-range models only).
SW sensitivity [%]		Modifies the overall sensitivity within a bandwidth 50% - 150%. Reduction of overall sensitivity changes alarm threshold but leaves coverage of long-range channel unchanged.
SW ATD	ON	Enables “Adaptive Threshold Discrimination”.
	OFF	Disables “Adaptive Threshold Discrimination”. ***NOTE!*** Disable ATD function prior to walking test to optimize performance of detector. When putting “SW Test” to “ON”, ATD function is disabled automatically in Software mode.
SW Test	ON	Enabled to perform walking test with Wireless walking tester CT PRO 2.
	OFF	Disabled for normal operation.

SW Vandalism protection	ON/ OFF	Enables/ Disables “Anti-Tamper Protection”.
SW Mounting height [4)]	HIGH	Mounting height above than 3 m (10 ft).
	LOW	Mounting height less than 3 m (10 ft).
Reset vandal position	ON	Writes new alignment position into non-volatile RAM as baseline for anti-tamper protection in case of misalignments.
	OFF	Upload of settings to control device happens always automatically in “OFF”.
	-	Not selected.
Reset alarm counter	ON	Resets alarm counter to “zero” at next download of settings to detector.
	OFF	No resetting of alarm counter to “zero” at next download of settings to detector.
	-	Not selected.
SW pulse count [2)]	0 - 10	Number of additional pulses (0 – 10) before an alarm is generated.
	OFF	Disables “Adaptive Threshold Discrimination”. ***NOTE!*** Disable ATD function prior to walking test to optimize performance of detector.
Relay Sabotage	OFF	Disables output function of **sabotage** relay.
	ON	Enables output function of **sabotage** relay.
Relay Config1	OFF	Disables output function of **Config1** relay.
	ON	Enables output function of **Config1** relay.
Relay Sabotage Inverse	OFF	Relay opens when in alarm.
	ON	Relay closes when in alarm.
Relay Config 1 Inverse	OFF	Relay opens when in alarm.
	ON	Relay closes when in alarm.
Relay Config 2 Inverse	OFF	Relay opens when in alarm.
	ON	Relay closes when in alarm.
sensitivity BSS0		Modifies the sensitivity of the Back Sight Survailance Sensor 0 within a bandwidth 50% - 150%. Reduction of overall sensitivity changes alarm threshold but leaves coverage of long-range channel unchanged.
sensitivity BSS1		Modifies the sensitivity of the Back Sight Survailance Sensor 1 within a bandwidth 50% - 150%. Reduction of overall sensitivity changes alarm threshold but leaves coverage of long-range channel unchanged.
sensitivity IR2		Modifies the sensitivity of the Main Infrared Sensor within a bandwidth 50% - 150%. Reduction of overall sensitivity changes alarm threshold but leaves coverage of long-range channel unchanged.

Delay Relay [ms]		Delays the deactivation of the alarm relay in question to up to 163 seconds (enter in ms from 2 to 163837)
Reset anti masking	ON	Writes new alignment position into non-volatile RAM as baseline for anti-tamper protection in case of masking the front of the detector.
	OFF	Upload of settings to control device happens always automatically in “OFF”.
	-	Not selected.

Notes:

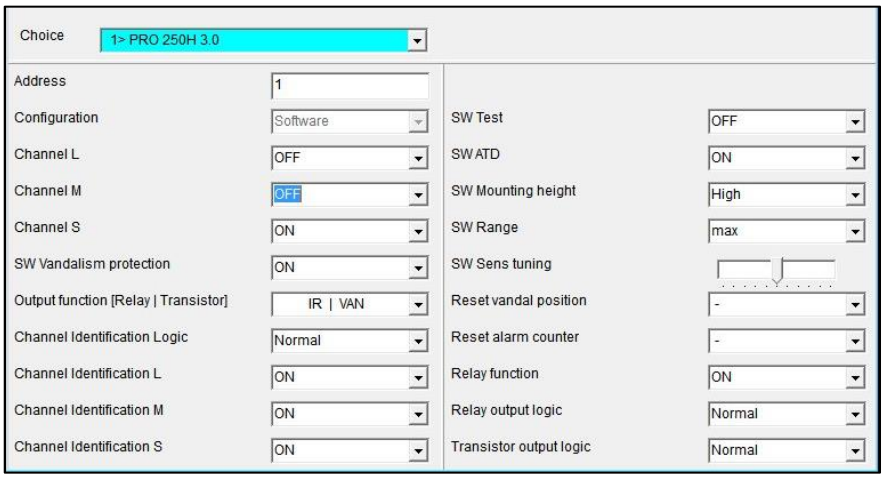
[1] *Applies only to long-range detector models*

[2] *Applies only to directional detector models*

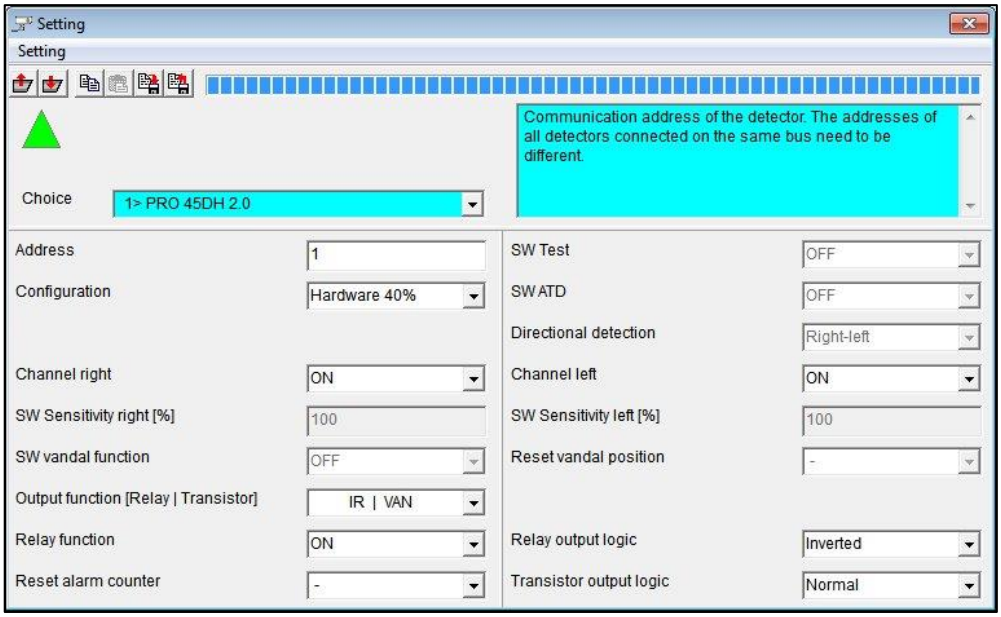
[3] *Applies only to volume detector models*

[4] *Applies only to PRO-51/ -85/ -85H/ -100/ -100H und -250H*

The following Setting window shows the dynamic changing of setting possibilities depending on model; e.g. of a multi-zone detector PRO-250H



Also, the Setting window provides you with additional information regarding the setting options, as shown in the following figure:



The above example shows help information regarding the detector’s address.

To view the help information of any other field, simply place the cursor in the required field and the information appears in the upper box.

To close the Setting window, click ( ).

NOTE!If you attempt to close the Settings window before saving the changes you make, the following message appears:

If you are sure you want to exit the window without saving, click (Yes); otherwise, click (No) then save the changes you made.

1.3.4.2.2 Upload Settings

To upload settings to detector, follow these steps:

1. Make the changes you want to the fields you can change,
2. Click ( ). Successful upload is represented with ( ).

NOTE!

Make sure to click ( ) to save the changes you made; otherwise, they are lost.

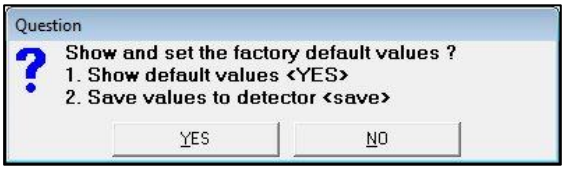
1.3.4.2.3 Factory Settings

You can reinstate the factory default configuration to the detector instead of the changes you made in the following cases:

- The detector does not seem to work properly.
- A previous version of the ADPRO PRO Windows® Software was used on the same detector.

To display and use the factory default settings, follow these steps:

1. Click (Factory), the following message appears:



2. Click (Yes) to replace the values with the factory ones,
3. Click ( ) to save them in the detector's configuration file.

1.3.4.2.4 Download Settings

To download the detector's settings, follow these steps:

1. Make the changes you want,
2. Select the detector,
3. Click ( ).

The configuration status is represented with the following symbols:

: Uploading configuration

: Changed configuration

: Communication problem

: Downloading configuration

1.3.4.2.5 Copy Settings

To copy the settings of a detector and use them in another one, follow these steps:

1. Select the detector which settings you want to copy,
2. Click ( ),
3. Select the detector to which you want to apply the copied settings,
4. Click ( ).

1.3.4.2.6 Save Settings to CFG File

To save the configuration in the “CFG” sub-folder accessed through the ADPRO PRO Windows® Software folder saved in the computer, follow these steps:

1. Make the changes you want,
2. Click ( ), the following field appears:

3. Enter file name,
4. Click (OK) to save, or (Abort) to cancel the action.

1.3.4.2.7 Load Settings from CFG File

To load the configuration saved in a CFG file, follow these steps:

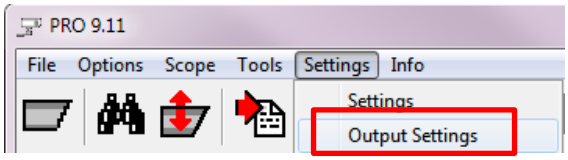
1. Click ( ), the following window appears:

2. Select the file,
3. Click (Open), the configuration appears in the Settings window so you can make sure you are using the desired configuration.
4. Click ( ) to upload settings to detector.

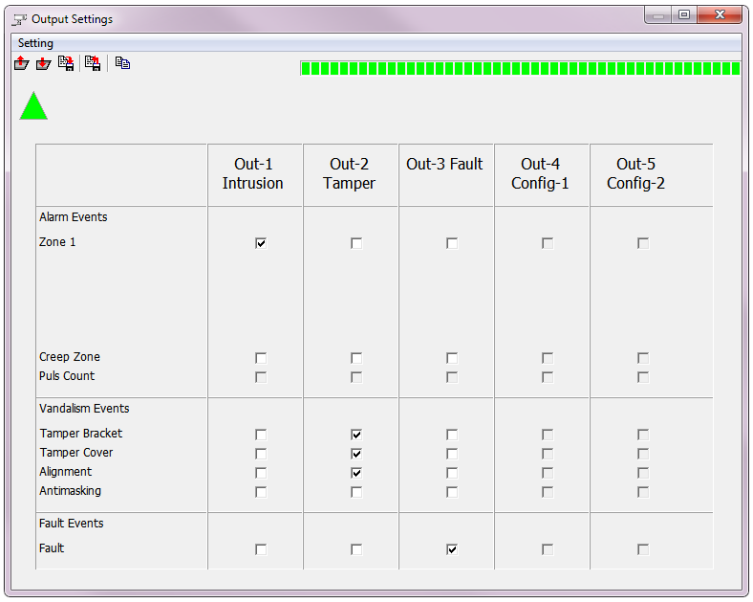
1.3.4.3 Output settings

The detector allows to freely assign different output events to all available output relays

Enter the output setting mode via top menu “Settings” -> “Output Settings”



The “ouput setting window” allows to match up to 5 output relays (depending on detector model) with any kind of event or alarm the detector can create. (depending on detector model) with any kind of event or alarm the detector can create:

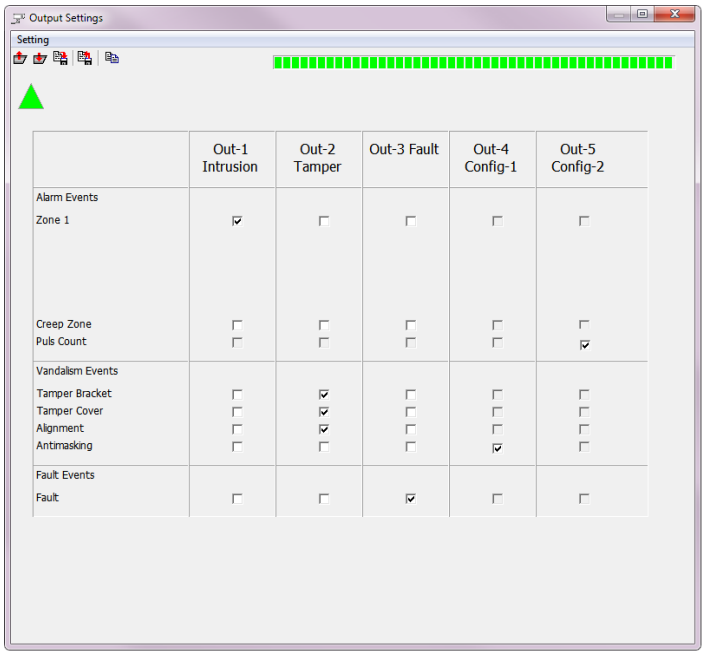


Depending on the amount of available alarm inputs and the ability to distinguish between the differnet events, you can freely assign events to outputs.

Example one, using three relays, as pictured above:

1. Intrusion: Relay triggers, in case the IR sensor detects movement in the main zone
2. Tamper: Relay triggers, in case the bracket cover switch is opened or the main housing is opened or the alligment is changed.
3. Fault: Relay triggers if a technical error occurs, like power failure or if the outside temperature is out of range of the specified operational range.
   Note: Output 4 and 5 are not used, also the creep zone alarm, anti masking and pulse count event are not reported through any output and would go unnoted.

Example two, using all five relays:



1. Intrusion: Relay triggers, in case the IR sensor detects movement in the main zone
2. Tamper: Relay triggers, in case the bracket cover switch is opened, the main housing is opened or the alligment is changed.
3. Fault: Relay triggers if a technical error occurs, like power failure or if the outside temperature is out of range of the specified operational range.
4. Config1: Relay triggers, if there is an anti masking alarm
5. Config2: Relay triggers, if there is a creep zone alarm

   Note: all alarms and events are reported and can be distinguished in all details.

1.3.4.3.1 Events leading to a “main” alarm:

alarm (IR)
alarm_medium range (IR), ***alarm_long range*** (IR), ***alarm_short range*** (IR) *)
alarm creep zone (CH1+CH2)
masking detection (together with intrusion FAULT)
Power on

*) multi-channel detectors only

1.3.4.3.2 Events leading to a “fault” alarm:

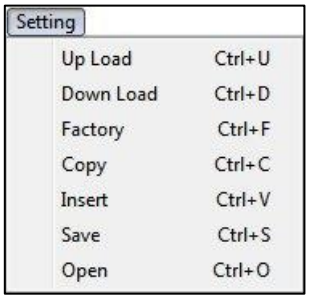
power failure
masking detection (together with intrusion ALARM)
heat system error (when heater installed)
flash problems
operational temperature out of range
self-test compass failed
self-test G-sensor failed
wrong model selected; refer to Fig. XX (Rotary Switch Mapping)
power on

1.3.4.3.3 settings: (Alles identlisch mit den “Standard” Settings)

The window shows the detailed setting options of the selected detector. It also shows the actions you can perform where each one is represented with a certain button as follows:

Image	Action
	Upload settings to detector
	Download detector's settings
	Copy
	Insert
	Save to configuration file
	Load from configuration file

Also, the above actions can be accessed by clicking "Setting", the following menu appears:



The following sections discuss all the actions you can perform, the available tools and how to use them.

NOTE!

Setting options depend on detector model.

Displayed positions and displayed terms of option may vary depending on detector model.

To select a detector to load its settings, you can:

- Select the detector from the drop-down menu then click ( ).
- Press <F3> and search for it by following the same steps mentioned in section (10.3.1 Select Detector), then click ( ).

1.3.4.4 Communication Interface (Com Port)

For more information on how to select the port you want to use, refer to section (10.3.2 Select Communication Port).

1.3.4.5 Language Selection

The Software provides the settings and parameters in various languages displayed in this menu.

To switch between the available languages, follow these steps:

1. Click “Language”,
2. Select the language you want.

Parameters and settings are now displayed in the selected language, but as for the interface language itself it is only available in English.

1.3.4.6 Beep

If this option is checked, whenever the detector detects something, you’ll hear a beep.

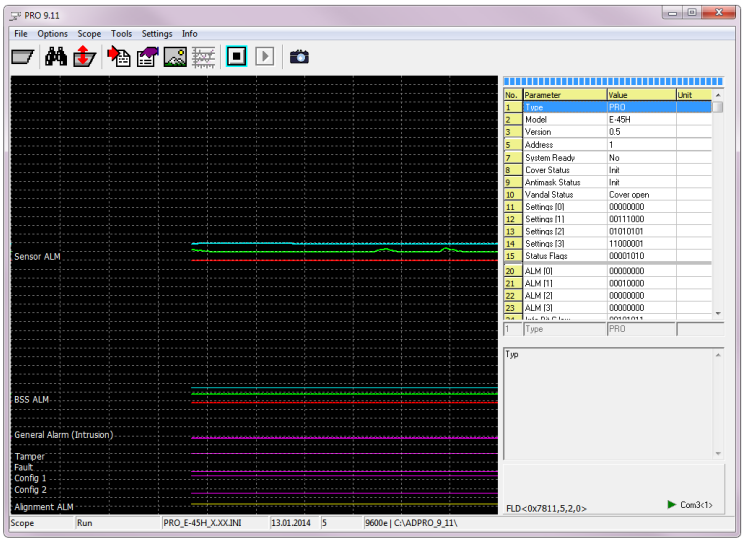
1.3.5 Oscilloscope View (Scope)

The Scope view is the most powerful feature of the software. It shows in real-time the signal strength of each zone, if the monitored detector features multiple detection zones. Simultaneously, it shows the actual alarm threshold, the general alarm status, and various parameters such as total alarm count, strongest signal level received, and current settings of the DIP switches in the detector, etc.

Through this menu you can manage the Scope view by stopping or running it, selecting the view mode, increase or decrease signal speed, etc.

Scope menu appears as shown below:

Scope view appears as follows:



The **Scope view** illustrates the cause/response relationship between inputs and output. The view shows all signals and their levels on a time axis; it allows for a detailed analysis of the detector’s operation.

The **Scope view** appears automatically after a detector has been selected from the search list. The signals on the screen represent the current readings of the detector and are helpful for resolving problems as well as managing certain installation features.

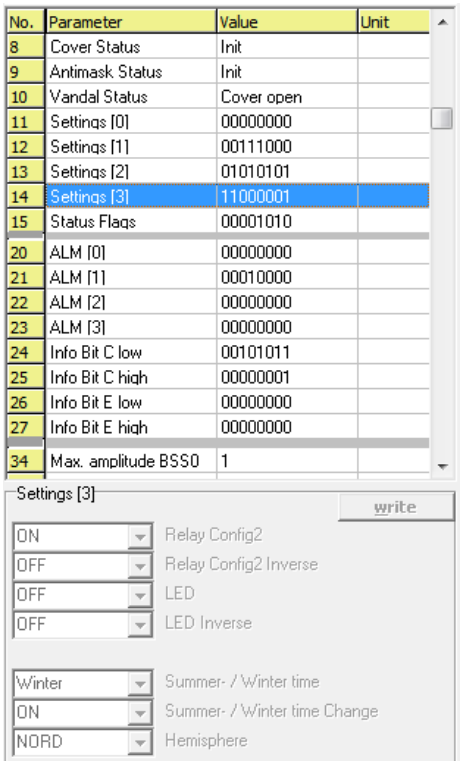
The Scope window is divided into the following three parts:

- **Scope view (black, left)**: Scope view is used to for signal monitoring; it shows IR amplitude, alarm-threshold and other vital parameters in real-time. In addition, it shows a varying amount of lines as follows:
  - Green (Sensor Signal): shows the signal levels of the PIR sensor.
  - Red (IR Alarm): shows the IR event caused by the sensor signal.
  - Purple (output alarms): shows the actual output signal at relay, depending on model and setup up to 5 signals, General, Sabotage, Fault, Config1 and Config 2.
  - Blue (Alarm threshold).
  - Yellow (Vandalism Alarm). Shows the detector has been misaligned.

> ***NOTE!***
>
> Alarms appear on Scope view only if the alarm generating detector is selected.

- **Table of Settings (top-right)**: This table shows the current settings of the selected detector; it consists of the detector's parameters such as sensitivity, desired detection range, their values and unit.

  To view the values of a certain parameter, click it, its values appear as shown below:


No. Parameter Value Unit
8 Cover Status Init
9 Antimask Status Init
10 Vandal Status Cover open
11 Settings [0] 00000000
12 Settings [1] 00111000
13 Settings [2] 01010101
14 Settings [3] 11000001
15 Status Flags 00001010
20 ALM [0] 00000000
21 ALM [1] 00010000
22 ALM [2] 00000000
23 ALM [3] 00000000
24 Info Bit C low 00101011
25 Info Bit C high 00000001
26 Info Bit E low 00000000
27 Info Bit E high 00000000
34 Max. amplitude BSS0 1
Settings [3]
write
ON Relay Config2
OFF Relay Config2 Inverse
OFF LED
OFF LED Inverse
Winter Summer- / Winter time
ON Summer- / Winter time Change
NORD Hemisphere

  The selected parameter's values appear in view-mode only. Any changes made to the settings are directly reflected on this table and the threshold.

> ***NOTE!***
>
> Information displayed in table may vary depending on detector model.

You can control the Scope view through the following:

Action	Button	Shortcut
Run the Scope	Run	<F5>
Stop the Scope	Stop	<Ctrl> + <F5>
Select Scope view mode	Scroll Mode	<F6>
	Grid	<F7>
Increase signal speed	Step up++	<F8>
Decrease signal speed	Step down- -	<Ctrl> + <F8>
Clear Scope view	Clear	<F9>
Delete all triggers	Trigger Delete ALL	<F10>

As shown in the table above, there are two scope modes:

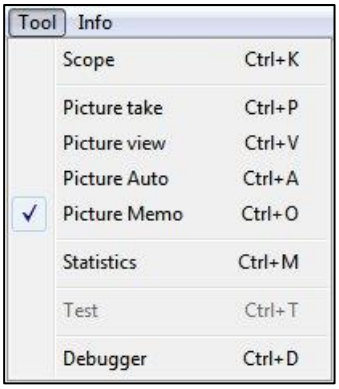
- **Scroll Mode**: If checked, the signal is continuous and its direction is from right to left. If unchecked, the signal's direction is from left to right and each time <F6> key is pressed the signal starts from the beginning.

  To switch between Scroll modes press <F6>.
- **Grid:** If selected, horizontal and vertical lines appear on the Scope in addition to the signals.

1.3.6 Diagnostic Functions (Tool)

This menu enables you to take pictures of the scope and save them in the computer, view statistics of alarm states, and identify communication problems, etc.

Tool menu appears as follows:



The following sections discuss all the actions you can perform.

1.3.6.1 Scope View

To open the Scope view, click (Scope) or press <Ctrl> + <K>.

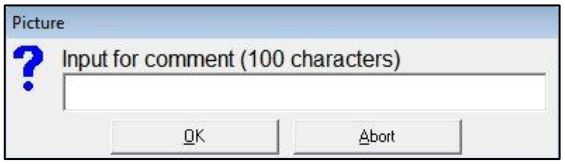
For more information on actions you can perform in Scope view, refer to section (10.3.5 Scope).

1.3.6.2 Picture Take

This tool enables you to take pictures of the Scope view and save them in the “BMP” sub-folder accessed through the ADPRO PRO Windows® Software folder. You can use them to compare readings, monitor readings on certain times, etc.

To take a picture and save it, follow these steps:

1. Click (Picture take), the following field appears:

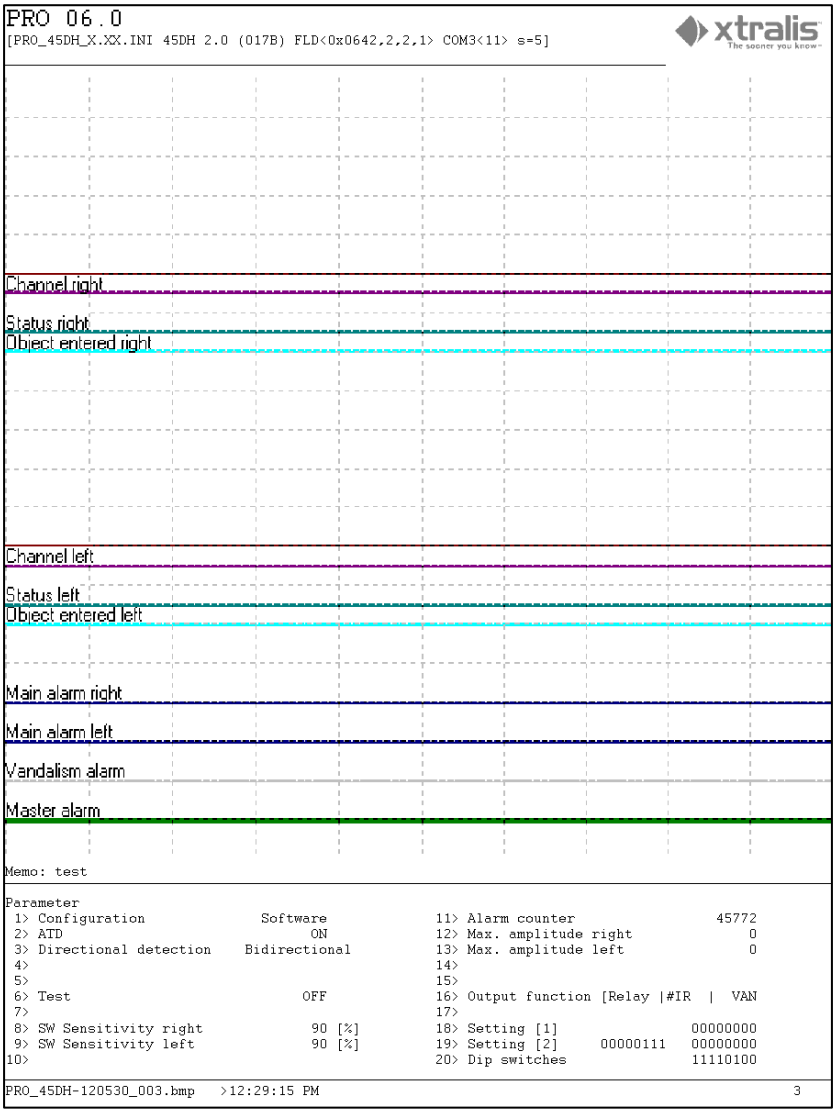


2. Enter your comment,
3. Click (OK).

The picture is saved in the BMP and given a name according to the following naming convention:

“PRO-Model No-yymmdd_nnn.txt” where: yy=year, mm=month, dd= day, nnn=sequential number (1 - 999).

To view a picture, open it from the computer, it appears as follows:

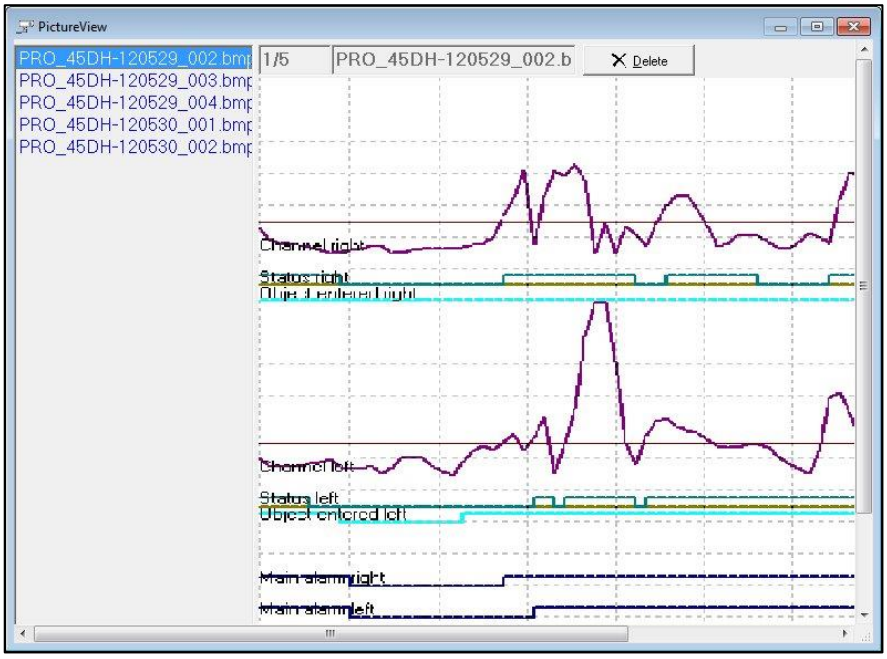


The image shows the Scope, comment, and settings at the time that picture was saved.

However, pictures can be viewed from the Software itself as explained in the next section.

1.3.6.3 Picture View

You can view the pictures directly from the Software for easier access by clicking (Picture view). The following window appears:



The window is divided into two parts: the left one lists all the pictures and the right a preview of the selected picture.

To delete a picture, follow these steps:

1. Select the picture, its name is displayed in the field,
2. Click (Delete). It is immediately deleted from this window and from the “BMP” folder as well.

To close the window, click ( ).

1.3.6.4 Picture Auto

If this feature is checked, each time the detector reads a signal or detects a movement, a picture is automatically taken and saved in the “BMP” folder.

1.3.6.5 Picture Memo

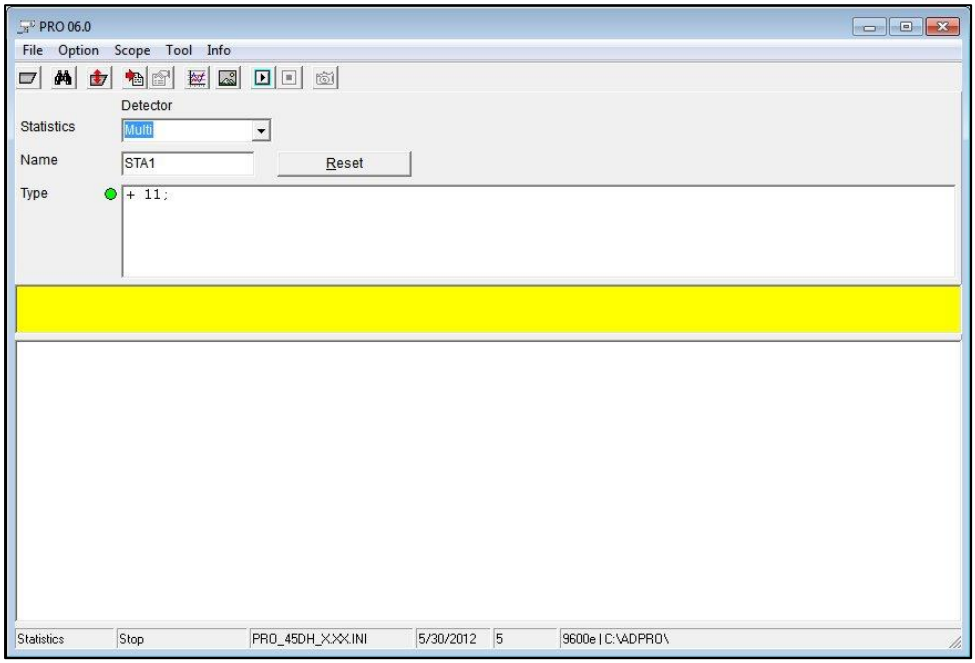
If this feature is checked, the “Picture take” tool is activated and you can take pictures of the Scope.

1.3.6.6 Statistics

Through this feature you can view data the detector transmits to the controller. The Statistics view logs the actual alarm status of all detectors that have been discovered during the initial “Search for Detectors” process. In addition to general alarm information, the view details the zone that issued the alarm. It also shows warnings and detector‘s status under the system column. Every status change from every detector adds a line in this log view.

This information is stored in text files on a daily basis, one file per detector. Files are saved in the “DAT” sub-folder accessed through the ADPRO PRO Windows® Software folder.

Click (Statistics), the following window appears:



The window is divided into the following sections:

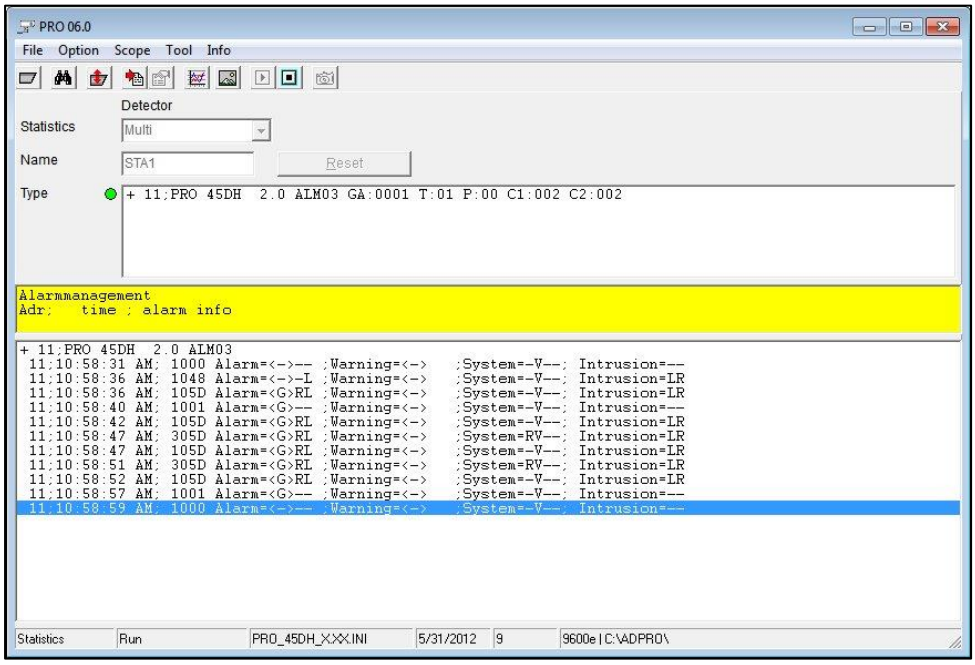
- **Connected Detectors (1)**: displays all connected detectors with information about identification number, firmware version number and alarm counters.
- **Type (2)**: Each symbol indicates a status as follows:

  (🟢): connected.

  (🔴): not connected.
- **Log (3)**: displays the actual log.

To generate a statistics file and save it, follow these steps:

1. Enter file name,
2. Click ( ) to start the viewing the transmitted data, it appears as in the example below:


PRO 06.0
File Option Scope Tool Info
Detector
Statistics
Multi
Name
STA1
Reset
Type
+ 11;PRO 45DH 2.0 ALM03 GA:0001 T:01 P:00 C1:002 C2:002
Alarmmanagement
Adr; time ; alarm info
+ 11;PRO 45DH 2.0 ALM03
11;10:58:31 AM; 1000 Alarm=<->-- ;Warning=<-> ;System=-V--; Intrusion=--
11;10:58:36 AM; 1048 Alarm=<->-L ;Warning=<-> ;System=-V--; Intrusion=LR
11;10:58:36 AM; 105D Alarm=<G>RL ;Warning=<-> ;System=-V--; Intrusion=LR
11;10:58:40 AM; 1001 Alarm=<G>-- ;Warning=<-> ;System=-V--; Intrusion=--
11;10:58:42 AM; 105D Alarm=<G>RL ;Warning=<-> ;System=-V--; Intrusion=LR
11;10:58:47 AM; 305D Alarm=<G>RL ;Warning=<-> ;System=RV--; Intrusion=LR
11;10:58:47 AM; 105D Alarm=<G>RL ;Warning=<-> ;System=-V--; Intrusion=LR
11;10:58:51 AM; 305D Alarm=<G>RL ;Warning=<-> ;System=RV--; Intrusion=LR
11;10:58:52 AM; 105D Alarm=<G>RL ;Warning=<-> ;System=-V--; Intrusion=LR
11;10:58:57 AM; 1001 Alarm=<G>-- ;Warning=<-> ;System=-V--; Intrusion=--
11;10:58:59 AM; 1000 Alarm=<->-- ;Warning=<-> ;System=-V--; Intrusion=--
Statistics
Run
PRO_45DH_XXX.INI
5/31/2012
9
9600e | C:\ADPRO\

Note that a line is created for each detected event, along with the date and event description.

3. Click ( ) to stop the process and save the file.

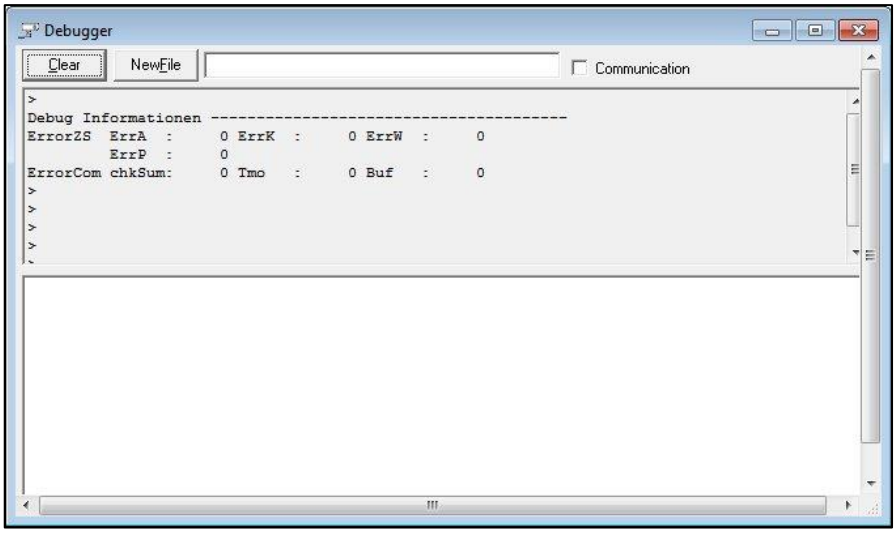
The file is saved in the “DAT” folder and named according to the following naming convention:

“STAz-yymmdd_nnn.xxx” where: z=number of statistics file, yy=year, mm=month, dd= day, nnn=sequential number (1 - 999), xxx=address number.

1.3.6.7 Debugger

This tool helps record all communication made between the detector and computer and save this information in files stored in the computer. These files are saved in the “DAT” sub-folder accessed through the ADPRO PRO Windows® Software folder.

Click (Debugger) to open the Debugger window, it appears as follows:


Debugger
Clear
NewFile
Communication
>
Debug Informationen ----------
ErrorZS ErrA : 0 ErrK : 0 ErrW : 0
ErrP : 0
ErrorCom chkSum: 0 Tmo : 0 Buf : 0
>
>
>

To stop recording of data, click (Clear).

Files are named according to the following naming convention:

“DBG-yymmdd_nnn.txt” where: yy=year, mm=month, dd= day, nnn=sequential number (1 - 999).

The following abbreviations are used in data recording:

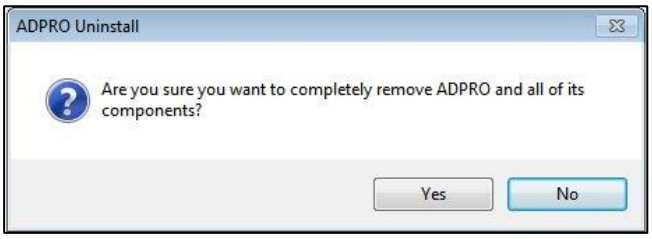
Abbreviation	Error
ErrA	Error counter
ErrK	Error counter configuration
ErrW	Error counter working
ErrP	Error counter synchronisation
ChkSum	Error counter check sum
Tmo	Error counter timeout
Buf	Error counter buffer

1.4 Uninstall Software

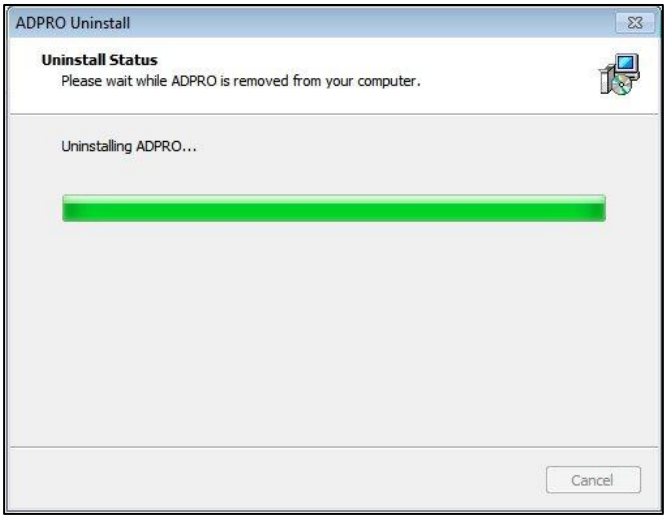
You might need to uninstall the ADPRO PRO Windows® Software for any reason; the Software enables you to do so by providing you with a user-friendly wizard.

To uninstall the Software, follow these steps:

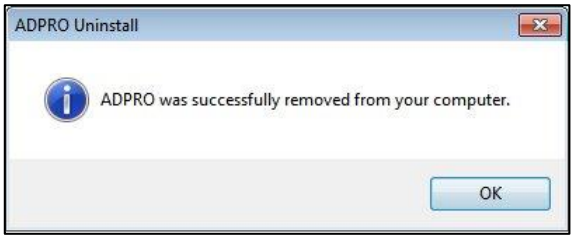
1. Open the folder in which you have installed the Software,
2. Double click on “unist000.exe”, the following message appears:



3. Click (Yes), the following window appears:



4. Wait till the uninstallation process is complete, the following message appears:


ADPRO Uninstall
ADPRO was successfully removed from your computer.
OK

5. Click (OK).

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